



CAUTION
**Do not open -
 risk of electric shock**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER. THERE ARE NO USER SERVICEABLE PARTS INSIDE. REFER ALL SERVICE TO YOUR AUTHORIZED AMERICAN AUDIO® DEALER.



The lightning flash with an arrow triangular symbol is intended to alert the user to the presence of non insulated "dangerous voltage" within the products enclosure, and may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the user manual accompanying the CD player.



FOR OPTIMUM PERFORMANCE AND RELIABILITY DO NOT PRESENT THE AMPLIFIER WITH A SPEAKER LOAD OF LESS THAN 2 OHMS. OR ANY COMBINATION OF SPEAKERS THAT TOGETHER ARE LESS THAN 2 OHMS!

USING ONE SPEAKER, IT MUST BE RATED AT 4 OR MORE OHMS.

USING TWO SPEAKERS, THEY MUST BE RATED EACH AT 4 OR MORE OHMS.

USING THREE SPEAKERS, THEY MUST BE RATED EACH AT 8 OR MORE OHMS.



POUR ASSURER LA FIABILITE ET OBTENIR UNE PERFORMANCE OPTIMALE, NESOUMETTE JAMAIS L'AMPLIFICATEUR A UNE CHARGE D'IMPEDANCE TOTALE INFERIEURE A 2 OHMS, NI AVEC UN H.P. NI EN COMBINAISON DES H.P.

AVEC UN H.P., IL FAUT UNE CHARGE D'IMPEDANCE MINIMUM DE 2 OHMS.

AVEC DEUX H.P., FAUT POUR CHAOUN UNE CHARGE D'IMPEDANCE MINIMUM DE 4 OHMS.

AVEC TROIS H.P., FAUT POUR CHAOUN UNE CHARGE D'IMPEDANCE MINIMUM DE 8 OHMS.

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Important Precautions

1. Be sure to save the packing carton in case you may ever have to return the unit for service.
2. Read all documentation before attempting to operate your new amplifier. Please save all your documentation for future reference.
3. Do not spill water or other liquids in to or on to your amplifier.
4. Be sure that the local power outlet match that or the required voltage for your amplifier.
5. Do not attempt to operate this unit if the power cord has been frayed or broken. Please route your power cord out of the way of foot traffic.
6. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
7. Always have the front gain controls set to their lowest level during initial power-up to prevent speaker damage .
8. Disconnect from main power before making any type of connection.
9. Do not block the units cooling vents or fan intake. If this unit is being used in an extremely dusty or smoky environment, the unit should be blown through on a regular basis.
10. Do not remove the top cover under any conditions. There are no user serviceable parts inside.
11. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
12. Do not try to run the input signal of an amplifier by the output of any other amplifier.
13. Never ground a RED (positive) terminal. Never connect a RED (hot) terminal to another RED (hot) terminal.
14. Disconnect the unit's main power when left unused for long periods of time.

Introduction

Introduction: Congratulations and thank you for purchasing the American Audio® V1500™ amplifier. This amplifier is a representation of American Audio's continuing commitment to produce the best and highest quality products all at an affordable price. This amplifier is an ultra-compact amplifier that packs a big punch! Please read and understand this manual completely before attempting to operate your new amplifier. This booklet contains important information concerning the proper any safe operation of your new amplifier.

Unpacking: Carefully open and unpack your amplifier. Be sure to save the packaging in case you may ever need to return your unit to the factory. After unpacking, inspect the amplifier for any type of damage that may have occurred during shipping or transit. If you notice any type of damage notify your dealer immediately for instructions.

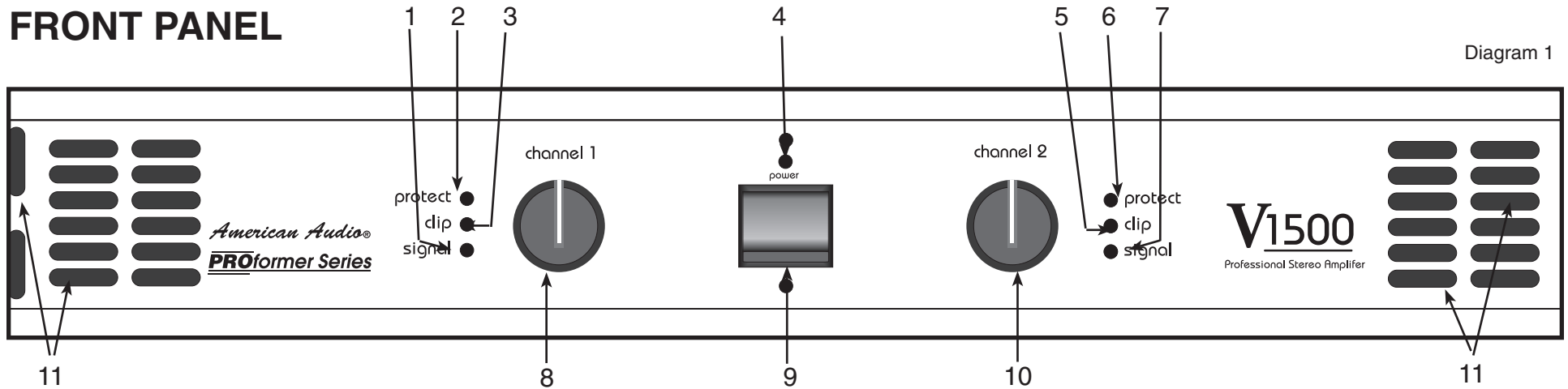
Installation: This amplifier is made to mount in a standard 19" rack The front panel provides four holes used to screw the unit into a rack The unit also provides a way to rear mount the unit into a rack for added security. Rear mounting the unit is especially recommended if the unit is to mounted in to a mobile rack.

Customer Support: American Audio® provides a toll free customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.americandj.com for any comments or suggestions. For service related issue please contact American Audio®. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (800) 322-6337
Fax: (323) 582-2610
E-mail: support@americandj.com

FRONT PANEL

Diagram 1



1. Channel 1 Signal indicator -

This Green LED will glow when there is an input signal present.

2. Channel 1 Protect indicator -

This red LED will glow when channel one goes in to protect mode. In protect mode the output signal to the speakers will terminated to channel one.

3. Channel 1 Clip indicator -

This LED comes on at the amplifiers clipping point, the point when the output signal begins to distort. Under heavy clipping lower the input gains (Diagram 8) to reduce the risk of damage to your speakers and amplifier.

4. Power LED -

This LED will glow when the amplifier is turned on, indicating power is going to the unit.

5. Channel 2 Clip indicator -

This LED comes on at the amplifiers clipping point, the point when the output signal begins to distort. Under heavy clipping lower the input gains (Diagram 10) to reduce the risk of damage to your speakers and amplifier.

6. Channel 2 Protect indicator -

This red LED will glow when channel two goes in to protect mode. In protect mode the output signal to the speakers will terminated to channel two.

7. Channel 2 Signal indicator -

This Green LED will glow when there is an input signal present.

8. Channel 1 Gain control -

This knob adjust the channel one volume output to the speakers connect to channel one.

9. Power Switch -

This switch turns the unit on.

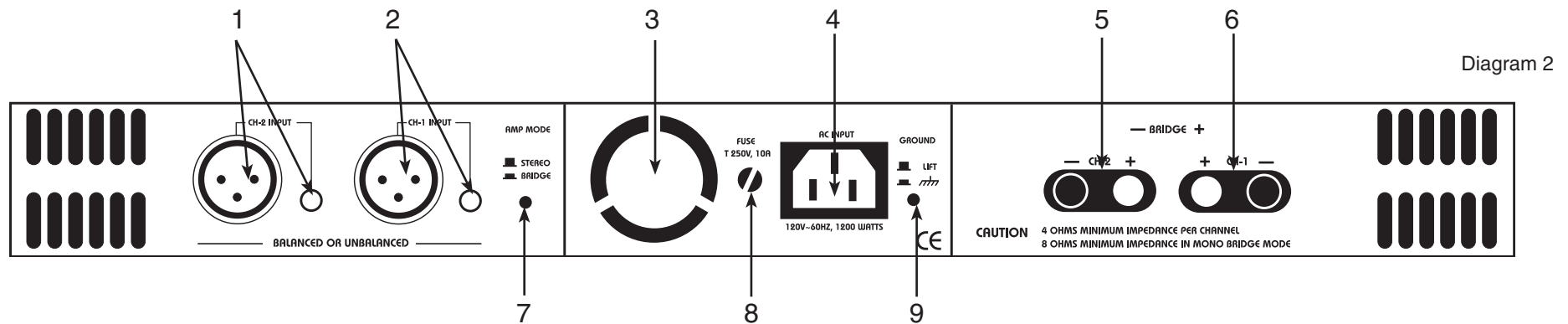
10. Channel 2 Gain control -

This knob adjust the channel one volume output to the speakers connect to channel one.

11. Exhaust Cooling Vents -

A cooling fan is mounted at rear of the amplifier. These exhaust vents allow hot air to be pushed out of the amplified to allow ample cooling of the internal components. **Do Not Block These Vents!**

REAR PANEL



1. Channel 1 Input -

Connect the input source for channel one to either the balance XLR or the unbalanced 1/4" input jacks. 1/4" TS plug - Tip is positive, Sleeve is negative. XLR - Pin three positive, Pin two is negative, Pin one is ground. See the chart on page 6.

2. Channel 2 Input -

Connect the input source for channel two to either the balance XLR or the unbalanced 1/4" input jacks. 1/4" TS plug - Tip is positive/Sleeve is negative. XLR - Pin three positive, pin two negative, pin one ground. See the chart on page 6.

3. Cooling Fan -

This is a dual speed cooling fan. This fan is used to cool the internal parts of the amplifier when in use. Never block the fan in any way or mount in an enclose rack, doing so may cause the amplifier to overheat and fail.

4. A/C Power Input -

Plug this cable in to a standard 110~120v wall outlet. Be sure that supplied voltage matches that of the required voltage of you amplifier. Never plug your amplifier in to a wall outlet that does not match the required voltage of your amplifier, serious damage

may occur to your unit.

5. Channel 1 Speaker Output - 5 Way Binding Post -

Connect your channel one speakers to channel one output.

6. Channel 2 Speaker Output - 5 Way Binding Post -

Connect your channel two speakers to channel two output.

7. Mono-Bridge/Stereo Selectable Switch -

This push button switch changes the amplifier operating mode from either stereo or mono bridge. Amplifiers arrive to you preset in the stereo operation mode.

8. Fuse -

This house the external 8amp fuse. All way replace with exact same type fuse unless otherwise instructed to do so by an authorized American DJ™ service technician.

9. Ground Lift Switch -

This switch is used to disconnect the internal ground signal from the chassis ground. ***This may reduce the buzz that is caused from an electrical 60Hz cycle.***

INPUTS

The V1500™ allows you two types of input connector per a channel, a XLR jack for balanced connections and a 1/4" jack for unbalanced connections. Use these connection to connect the output signal from a mixer, cross-over or EQ to your V1500 amplifier. The XLR connection is recommended for cable runs longer than 20ft. When building your own XLR cables follow the pin configuration describe below for proper connections. For cable runs shorter than 20Ft. you may choose the 1/4" input option. The 1/4" input option may be a little more convenient for most user due to the abundant supply of prefabricated cables on the market. You may also use the two different types of input cables to jump a parallel connection to another amp. For Example: Connect a XLR cable to the input of channel one. You may now connect a 1/4" cable to the input put jack of channel one and jump that cable to the input of another amp.

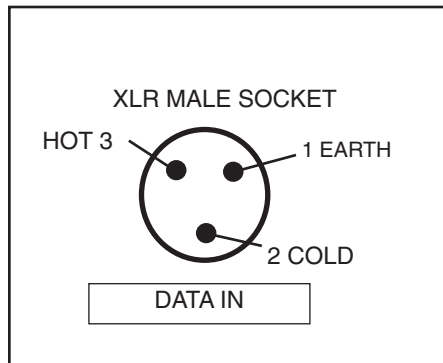
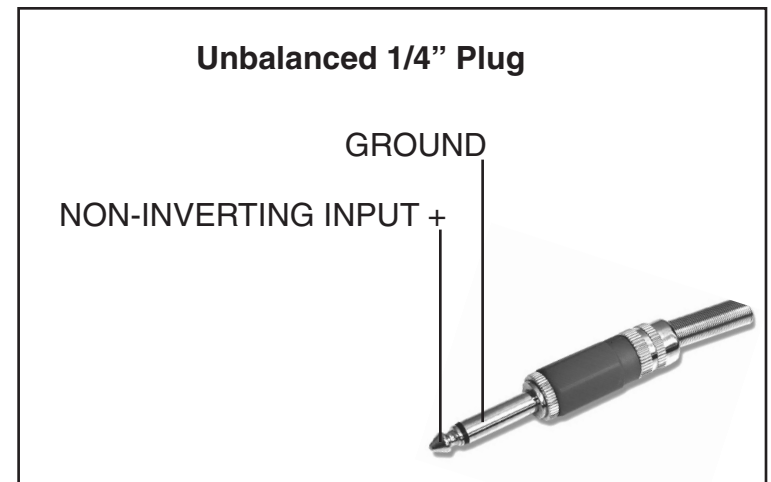


Diagram3

XLR Pin Configuration: *US ITT Standard*

- PIN 1: Ground / Return / 0v**
- PIN 2: Negative data complement (-, Inverted)**
- PIN 3: Positive data (+, inverted)**



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OUTPUTS:

Connect your speakers to the binding post outputs in the rear of the amp. The speaker wire may be connect by bare wire (directly connected usually for permanent connections), banana plug, or spade connector. Connections are made to Channel one and Channel two output for stereo mode or across the red terminals of Channels one and two for Mono Bridge Mode. **Important Notice:** *Although a speaker will operate with the positive and negative leads plugged into either terminal on the amplifier binding post, be sure to plug the negative lead into the black terminal and positive lead into the red terminal. Ensuring proper polarity will avoid your speakers being out of phase, that can cause a loss of bass response.*

Bare Wire Connections: (Diagram 5)

When connecting your speakers to the amplifier using bare wire; Unscrew the red and black caps on the binding post, be sure not to completely remove or unscrew the red and black caps. Strip back the wire insulation 1/2" (13mm). Insert the bare wire into the hole that was revealed by unscrewing the binding post cap. After inserting the wire into the binding post hole, screw the binding post cap down on the wire. To reduce the risk of shock or damage to your amplifier, be sure that the wire connected to one binding post does not come in contact with that of another.

Spade Connector: (Diagram 6)

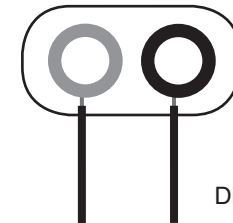
When connecting your speakers to the amplifier using spade connector; Unscrew the red and black caps on the binding post, be sure not to completely remove or unscrew the red and black caps. Insert the spade connector in to the binding post and tighten the caps down on the spade connector. To reduce the risk of shock or damage to your amplifier, be sure that the wire connected to one binding post does not come in contact with that of another.

Banana Plug:

When connecting your speakers to the amplifier using banana jacks; Be sure that the red and black caps on the binding post are tighten down completely. Insert the banana jacks into the caps of the binding post, be sure that the banana jack is inserted securely to avoid the risk of it popping out.

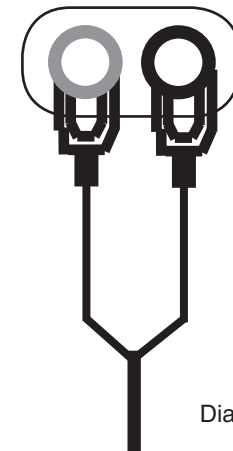
Mono Bridge Connections:

Mono bridge operation connections will follow the above descriptions however, when operating in mono bridge operation the speaker connections will run between the two positive (red) leads. Use channel two output for negative and channel one output for positive connection. (See page 8 Diagram 8)



Typical Speaker Output Binding Post.
Insert bare wire into the binding post.

Diagram 5



Typical Speaker Output Binding Post.
Insert spade connector into the binding post and tighten.

Diagram 6

Typical Stereo Output Connections



SPEAKERS
4 OHM MINIMUM

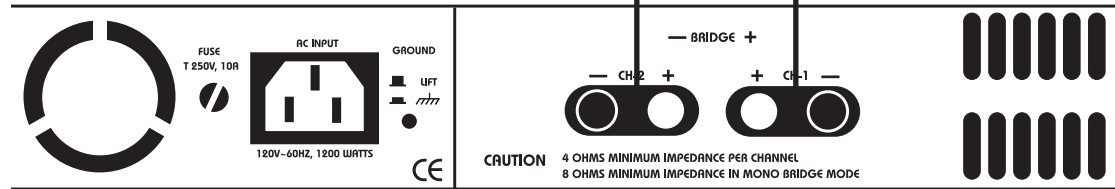
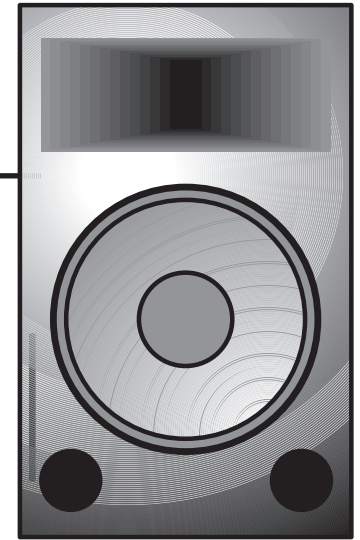


Diagram 7



SPEAKERS
4 OHM MINIMUM

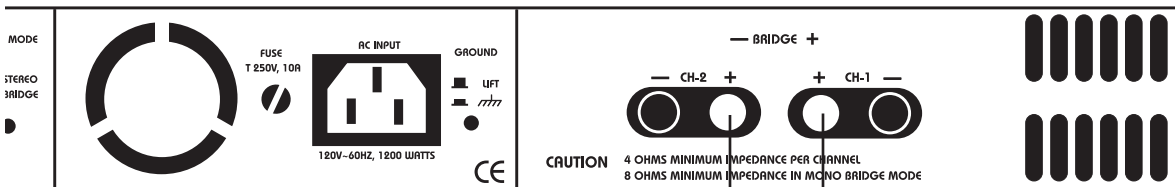
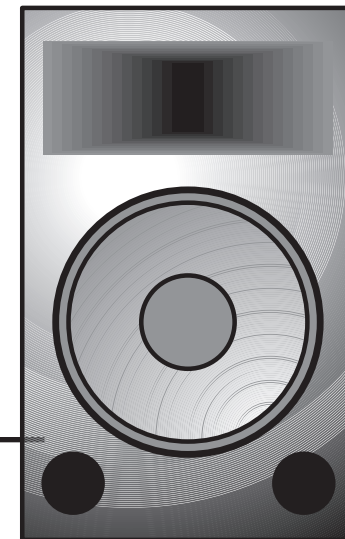


Diagram 8

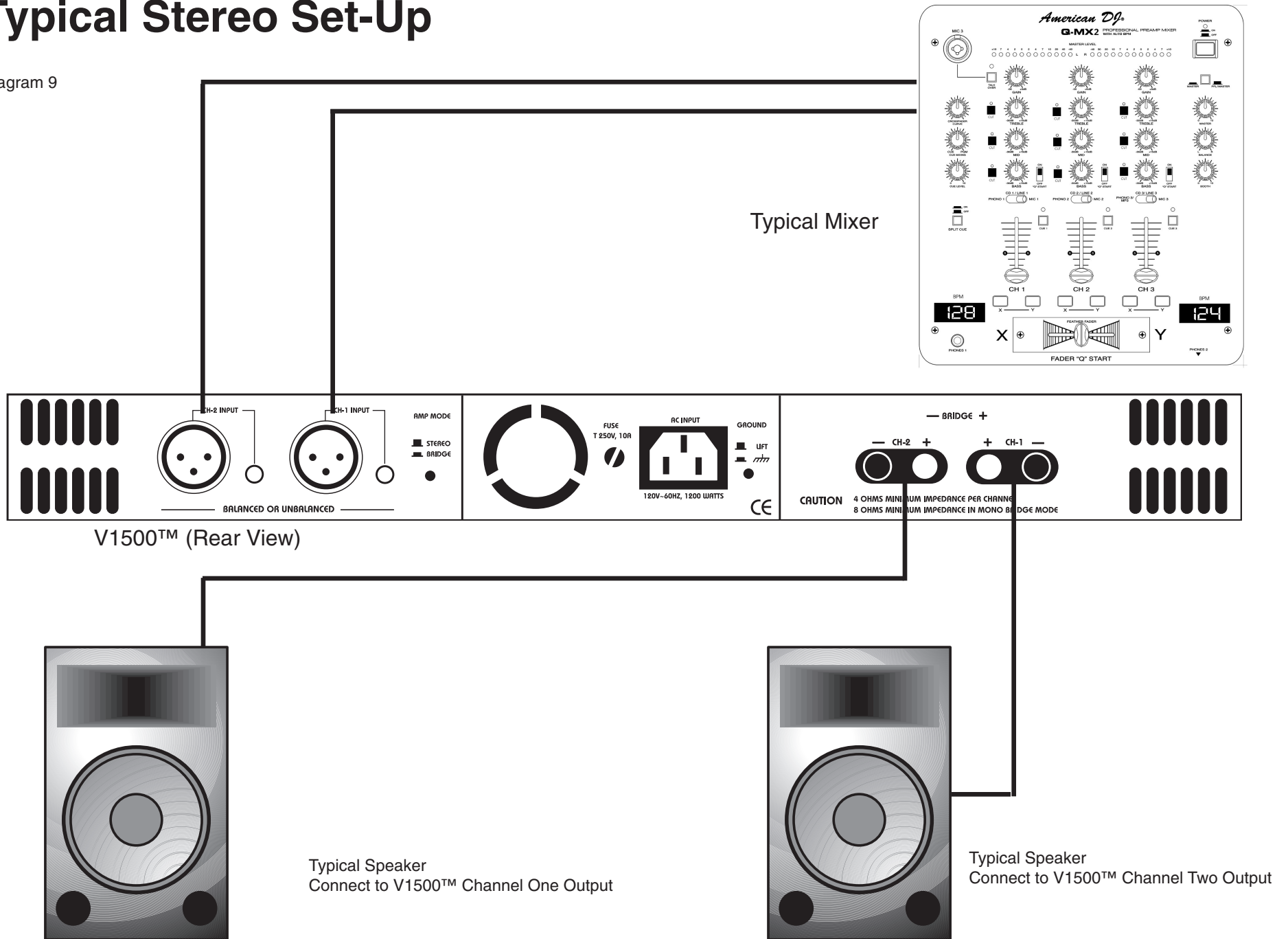


SPEAKERS
8 OHM MINIMUM

TYPICAL MONO BRIDGE SET-UP

Typical Stereo Set-Up

Diagram 9



Typical Speaker
Connect to V1500™ Channel One Output

Typical Speaker
Connect to V1500™ Channel Two Output

NORMAL OPERATION:

Page 9/Diagram9 show you an example of a typical stereo set-up. Connect your inputs into channels one and two of the amplifier. Connect your speakers to the outputs on the rear of the amplifier. Be sure that your front gain controls are turned down to their lowest level (full counter-clockwise). Turn your amp on. Turn your input level up. Use your front gain controls to regulate the output volume. Be sure not to raise the volume to the clip level however, an intermittent clip signal is acceptable.

MONO BRIDGE OPERATION:

Page 8/Diagram 8 give you a description of mono bridge set-up. Be sure you amplifier and all other equipment is shut off. Press the Stereo/Mono switch to the in position (Page 5/Diagram 2 #7). Connect an input signal to channel one. Connect your speaker across the red output binding post on the rear of your amplifier (See Page 7 Mono Bridge Set-Up). Turn your equipment on (your amplifier should be the last piece you turn on). Apply an input signal to your amplifier. Turn channel two gain up. Use the channel one gain to regulate your amplifier output.

PROTECTION:

LIMITER

During normal operation, the limiter does not affect the audio signal and is, in fact inaudible. It will allow brief clipping of peaks and will only activate when continuous,hard clipping occurs. The limiter will then reduce the audio signal enough to minimize the amount of clipping. When the signal amplitude decreases enough that clipping ends, the limiter will deactivate and cease its gain reduction.

SHORT CIRCUIT PROTECTION

The Output Short circuit protects the output devices from short circuits and stressful loads.

THERMAL PROTECTION

A single variable-speed fan provides adequate cooling. But if the heatsink temperature exceeds 90C., the amplifier will mute until the amplifier cools down.

INPUT/OUTPUT PROTECTION

The input circuits are isolated by 10k resistors. An ultrasonic network decouples **RF** from the output and helps keep the amplifier stable with reactive loads.

SPECIFICATIONS

MODEL NO:	V-1500	V-2000 MKII	V-3000	V-4000
Output Power: 2 ohms, 1 khz 1%THD 4 ohms, 1khz, 1%THD 8 ohms, 1khz 1%THD (Bridge Mode, mono) 4 ohms, 1khz, 1%THD 8 ohms, 1khz, 1%THD	N/A 280W RMS PER CH. 200W RMS PER CH. N/A 600 WATTS RMS	540W RMS PER CH. 400W RMS PER CH. 280W RMS PER CH. 1050 WATTS RMS 820 WATTS RMS	800W RMS PER CH. 600W RMS PER CH. 360W RMS PER CH. 1500 WATTS RMS 1100 WATTS RMS	1400W RMS PER CH. 1010W RMS PER CH. 600W RMS PER CH. 2500 WATTS RMS 1650 WATTS RMS
Total Harmonic Distortion: 20Hz-20kHz, @ rated output power, 8 ohms	Less than 0.1%	Less than 0.1%	Less than 0.1%	Less than 0.02%
Input Sensitivity and Impedance: @ rated output power, 8 ohms	1.5v rms	1.0v RMS (0 dBv)	1.0v RMS (0 dBv)	1.0v RMS (0 dBv)
Dimensions & Weight: Height Width Depth Weight	1.75" (4.4cm) 19" (48.3cm) 15.25" (40cm) 25 lbs. (10.5kg)	3.5" (8.8cm) 19" (48.3cm) 15.9" (40.5cm) 30 lbs. (13.6kg)	3.5" (8.8cm) 19" (48.3cm) 15.9" (40.5cm) 31 lbs. (14 kg.)	5.25" (13.3cm) 19" (48.3cm) 15.9" (40.5cm) 61.7 lbs. (28 kg.)
Frequency Response: +/- 1db, 1w RMS. 8 ohms +/- 0.2 db, @ rated output, 8 ohms	10 Hz - 40 kHz 20 Hz- 20 kHz	10 Hz - 40 kHz 20 Hz - 20 kHz	10 Hz- 40 kHz 20 Hz- 40 kHz	10 Hz- 40 kHz 20 Hz- 40 kHz
Hum & Noise: Below rated output, 8 ohms	100 dB, unweighted	100 dB, unweighted	100 dB, unweighted	100 dB, unweighted
Power Consumption: @ rated output power, 8 ohms	8A @ 120v AC	7A @ 120vAC	10A @ 120vAC	40A @ 120vAC
Cooling System:	1 Dual Speed Fan and Heatsinks	2 Dual Speed Fans and Heatsinks	2 Dual Speed Fans and Heatsinks	2 Dual Speed Fans and Heatsinks

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